

Title (en)  
A LINEAR ACTUATOR WITH A COUPLING

Title (de)  
LINEARANTRIEB MIT EINER KUPPLUNG

Title (fr)  
UNITÉ DE COMMANDE DE VOITURE ÉCONOMISEUR DE CARBURANT ET ÉCONOMISEUR D'ÉNERGIE

Publication  
**EP 3179144 A1 20170614 (EN)**

Application  
**EP 15198334 A 20151208**

Priority  
EP 15198334 A 20151208

Abstract (en)  
A linear actuator (1) comprising a first part (3) and a second part (5) is disclosed. The first part (3) is arranged to rotate along with a rotating part (4) of a motor (2), and the second part (5) is arranged to drive an actuated part (18, 22). A coupling (6) interconnects the first part (3) and the second part (5) to allow the second part (5) to rotate along with the first part (3) at the same angular velocity as the first part (3). The coupling (6) defines a fit tolerance between the first part (3) and the second part (5) allowing the first part (3) to rotate a predefined distance before engaging the second part (5) and rotating the second part (5) along with the first part (3). The fit tolerance ensures that the first part (3) reaches a certain angular velocity and thereby that the resulting torque transfer from the first part (3) to the second part (5) is sufficient, e.g. to release the actuated part (18, 22) from a pretensioned state.

IPC 8 full level  
**F16K 31/04** (2006.01)

CPC (source: EP)  
**F16K 31/047** (2013.01)

Citation (applicant)  
US 6460567 B1 20021008 - HANSEN III CHARLES C [US], et al

Citation (search report)  
• [X] US 2013142675 A1 20130606 - NABEI TATSUSHI [JP], et al  
• [X] US 2005145810 A1 20050707 - YONEZAWA TORU [JP]  
• [X] JP H0849782 A 19960220 - TOYODA AUTOMATIC LOOM WORKS  
• [X] JP 2006112522 A 20060427 - SAGINOMIYA SEISAKUSHO INC

Cited by  
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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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